

**REMARKS**

This agent has attempted to make amendments based on his best understanding of the subject matter on file.

Applicant has amended the specification in its entirety. In doing so, editorial amendments have been made. Applicant believes to the best of his recollection that the amendments are all supported by the specification as filed and by the drawings as originally filed and as amended Feb 10, 2003.

Several figures believed to have been submitted as part of the Feb. 10, 2003 response have been deleted. The features in the subject drawing do not appear to have been included in the application as originally filed. While it is believed they were included in the Feb. 10, 2003 drawings, it appears that support from the original application as filed is tenuous if at all.

- (1) A figure illustrating a "Ladder Hook" "DRWG#7" on a ladder has been cancelled, and
- (2) A figure of a "Framers Bracket" "DRWG#8" and having a "Y" configuration has been cancelled.

It is believed that the application's description of a bracket for installation on a vertical member is broad enough to include the leg of a ladder and there is no need to risk introduction of same in an additional drawing.

The specification, as filed, discloses the following descriptive terminology:

<u>Term:</u>	<u>Context from the text and drawings</u>
tool / stud clip	the device; a support bracket
vertical building member	stud, vertical member or scaffold leg
side body	base member
front wall	leg, transverse member
back wall	leg, transverse member
front side tab	tab
back side tab	tab
anchor teeth	anchor teeth
hook / hook extension	hook member
"U" shaped extension	mounting extension
dispensing rollers / set of rollers	plurality of rollers
arm extension	support plate
reel hooks	an embodiment of the invention
coil rollers	an embodiment of the invention
scaffold brackets	an alternate embodiment of the invention
work bench	an alternate embodiment of the invention

The specification, as replaced, uses the following terminology and Applicant has provided aids in supporting its inclusion which Applicant contends has been accomplished without the introduction of new matter:

Term:	Support	As filed <u>Drawings</u>
support bracket	dictionary, "stud clip" desc	All
vertical member	expansion from "vertical building member" desc	All
base member	"side body" desc	All
legs	expansion from "front wall", "back wall", "side tab" desc	All
transverse member	"front wall" desc	All
tabs	"back wall" desc	
anchor means	expansion from "anchor teeth" desc	Reel Hook Drawing 3; Coil Roller Drawing 1
support means	expansion from "hook", "U" shaped extension, "dispensing rollers" desc	All
recess	dictionary	All, Reel Hook Drawing 1 refs "Clearance reg'd to attach to Stud or Vert. Post"
opening	dictionary	All, Reel Hook Drawing 1 refs "Clearance reg'd to attach to Stud or Vert. Post"
contact edges	"front wall", "back wall" desc	All
hook member	"hook", "hook extension" desc	Reel Hook Drawings 1 to 3
axle	dictionary	Coil Roller Drawings 2 and 3
rollers	"dispensing roller", "set of rollers" desc	Coil Roller Drawings 2 and 3
support plate	"arm extension" desc	Scaffold Bracket 01

Drawing changes are attached hereto and include new lead lines and reference numerals.

Replacement Informal drawings Figs. 1 – 9 are enclosed.

35 USC 112

The Examiner has rejected the 9 claims as being indefinite under s.112. Nine new claims, numbered as claims 10 – 18 have been provided. Applicant submits that the new claims more distinctly specify the invention.

35 USC 102(b)

The Examiner has rejected the 9 claims under 35 USC 102(b) as being anticipated by Sink (US Patent 6,293,058).

Applicant has provided new independent claim 10 and dependent claims 11-18. The new independent claim better distinguishes the present invention and Applicant believes that the rejection is traversed.

Briefly, and relying on the specification and drawings as filed and as best understood by this Agent and by Applicant, and as now claimed, one can see that Applicant discloses a support bracket comprising a base member and support means extending therefrom for supporting the object and a pair of legs protruding from the same side of the base member adapted for gripping the vertical member in a supporting position. The legs are spaced on the base member to define an opening therebetween for receiving the vertical member in an installation position, the opening being disabled in the supporting position wherein the legs engage the vertical member and support the bracket therefrom.

Turning to Sink, this patent discloses a system of multiple brackets and rods, specifically a bracket support system comprising an upper bracket, a lower bracket, a connection rod extending from the lower bracket, a support holder connect to the connection rod and a back support extending from the support holder to the upper bracket.

Although the upper and lower brackets in Sink receive a building stud, these brackets are simple U-shaped devices which attach or install onto a building stud by means of screws threaded through the bracket and tightened against the stud. Note that Sink provides no means of attachment of the brackets to the stud other than through tightening of the screws. The screws are critical to the operation of Sink, else the bracket will not be supported from the stud.

To be complete, the other cited references not relied on by the Examiner include

- Bankson does not disclose a bracket for installation or attachment to a vertical member. Bankson discloses a device for supporting objects from a horizontal member, such as overlapping siding boards;
- Schlegel does not disclose a bracket for supporting objects from a vertical member, but rather from a horizontal or sloped member, such as ceiling joists. Although there are projections in Schlegel which mount against a ceiling joist, these projects are simple L-shaped devices which attach onto the joist by means of screws threaded through apertures, in the projections, and into a joist, or by means of a C-clamp; and

- Johnson does not disclose a bracket nor a device for supporting any type of object, but instead teaches an interval locator.

Thus, none of the cited prior art alone or in combination teaches all the elements of Applicant's invention as now claimed in new Claim 10. Claim 10 should now be in condition for allowance.

Claims 11 – 18 depend from claim 10 and thus should also be in condition for allowance.

In view of the foregoing remarks, reconsideration of new claims 10-18 now on file, and allowance is respectfully requested.

Respectfully submitted,

  
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Date: March 12, 2004

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**VIA FACSIMILE TO TC3600 – 1-703-872-9306**

SERIAL NO. 09/988,654

7

Atty Docket: 2307-004

**MARKUPS**

### Abstract of Disclosure

A tool developed to clip on the vertical building members (ie: studs) to facilitate dispensing of electrical wire and plastic water lines as well as provide scaffold and workbench capabilities for those trades working in building construction prior to the wallboard installation stage.

"Stud Clips" technology was developed as a means to provide competitive advantages to the worker through increased safety, better work efficiency and less physical wear and tear on the worker.

Stud Clip anchors to vertical building members by fastening around the specific building members via preformed metal that slides horizontally and across on to the stud or build members and is then twisted forward to the 45 degree position which holds the tool in place via two side and end flaps as well as forward and/or rear anchor teeth (pending model type).

Once in place Stud Clip provides hooks for electrician's "roll bars"; dispensing rollers for plumber's plastic water lines; scaffold brackets for temporary required planking and workbenches to assist all workers with their day-to-day duties.

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**Disclosure:**

The following invention relates to a clip on tool of different model types which are specifically designed for the construction industry.

**Background of the invention:**

In the construction industry any time something is required to be fastened (temporarily or permanently) to a wood or metal stud (or any vertical building member) the trades person is not only required to hold the item to fasten it accurately in place but also use a hammer or drill as well as nails or screws.

Through the creation of "Stud Clips" we achieve greater work efficiency while at the same time providing a higher level of safety and convenience and reducing long-term physical wear and tear of the worker.

Example #1: When an electrician is mounting wire rolls (s/he has to drive in and bend 3 1/4 - 3 1/2" spikes around a pull bar (minimum 4, as many as 8-10 spikes) to securely fasten the roll bar to a wood stud (with as many as 4 40-50 lb rolls of wire mounted on the bar). In the case of a steel stud the difficulties arise through holes in the metal that do not line up or steel studs that remain permanently twisted after having a roll bar forced through them to support wire.

Stud Clip "Reel Hooks" (RH01) twist into place in a fraction of the time required to drive in and bend nails and removes the risk of having a nail bend out of place when heavy rolls are lifted into place. Also removed with greater ease therefore reducing physical wear and tear of the worker.

Example #2: In the case of the plumber when installing water lines their material is provided in a large coil in which the plumber unrolls around their work area or lays horizontally on a coil dispersing spool (which takes up working area and doesn't positively hold the coil of waterline in place while the worker pulls against it.

Stud Clip "Coil Rollers" (CR01) first of all is a fraction of the weight of a horizontal spool. They take far less room when stored in the vehicle, provide more work area for not only the water line installer but other workers in the area and provides a solid anchor from which to pull against thereby not only reducing set up time, installation time, dismantle and storage time but increases safety through less floor clutter and eliminates the need of second worker to keep the coil from tangling. As an added bonus "Coil Rollers" also provide the plumber with a proper height holder for cutting drain pipes thereby reducing lower back wear and tear.

Disclosure 2

*Stud Clip "Work Bench" (WB01) provides a solid, lightweight "Work Bench" to allow the worker a proper area to spread out blueprints, set up power miter saw, assemble material, repair tools or simply set up the radio and the coffee pot.*

*Stud Clip "Scaffold Bracket" (SB01) In the case of the framing carpenter Stud Clip provides a fast and reliable method of setting up scaffolds. Eliminate the need to drive nails and saves time, wear and tear when taking the scaffold apart.*

Yours truly,

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"Stud Clips"  
Specification

**Material:**

Non-corrosive aluminum plate.

**Size:**

Variable pending application.

**Method of production:**

Stud Clips and its various models are produced by:

- 1) Mapping out required shapes and sizes on a 4'x8' sheet of aluminum (minimum 1/8" thickness and larger pending strength sizes requires paying particular attention to minimizing waste of material and time).
- 2) All pieces are cut to shape using a metal sheer.
- 3) Shapes are then stamped or drilled as to provide the necessary definition required but not achieved in step two to make ready for bending.
- 4) Refined shapes are then bent by using a Roll Brake to achieve the Final shape which is ready for use.
- 5) As described in the Abstract of the Disclosure, "Stud Clip" and associated models slide horizontally and across one stud or Vertical Building Member and is then twisted forward to the 45 degree position which holds the tool in place via the side body, two side flaps and two end flaps as well as forward and or rear anchor teeth (pending model).

List of Drawings and Model numbers

Drawing:  
Model RH01-

Showing:  
The lay out of the Reel Hook perpendicular to the stud or Vertical Building Member and the layout of the Reel Hook in the clipped on position.

Model RH02-

Side view showing the Reel Hook supporting the Wire Reel or Roll Bar.

Model RH03-

Facing view of the Reel Hooks supporting the Wire Reel on a Roll Bar.

Model CR01-

Shows layout of the Coil Roller and how it sits relative to the stud or Vertical Building Member.

Drawing:

Model CR02-

Model CR03-

Model SB01-

Model WB01-

Showing:

Shows the Coil Roller locked in place complete with roller wheels to accommodate water line coils.

Shows opposing Coil Rollers. Top Coil Roller carries the weight and the bottom Roller helps hold the water line in place.

Shows a side view layout of the Scaffold Bracket.

Shows a facing view of the Stud and "Work Bench".

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### Claims

The embodiment of the invention in which an exclusive property or privilege is claimed are defined as follows:

- 1) **"Stud Clip."** A tool, which is defined as it "Clips on" to vertical building members to anchor other tools and building materials used during the construction process.
- 2) A tool which is defined as having a
  - A) Side Body, which provides enough surface area to rest horizontally across a stud or building member and sits flat against the side of the stud and is tipped forward down to 45 degrees from the perpendicular when locked in place for use and requiring no additional fasteners or locked into place.
  - B) Front and back walls, which are forced against the front and back of the building member when the tool is set in place yet still allow for easy removal of tool after use.
  - C) Front and back side tabs, which hold the tool firmly against the side of building member and prevent twisting of tool during use.
  - D) Front, side and/or back anchor teeth (Pending Model type) which bite into building member providing additional support.
  - E) Through an extension to the front of the "side body" a variety of tools (pending model type) are accommodated.
- 3) As described in paragraph 2, Stud Clip "Post Hooks" are achieved through a hook extension of the side body are used in a minimum of two units clipped onto studs side by side to support the roll bar used for dispensing wire off the roll and can be used to support any amount of wire roll.
- 4) Also as described in paragraph two, Stud Clip "Coil Rollers" are achieved through a side extension of the side body complete with a set of rollers mounted horizontally along the bottom of the "U" to allow water line coil to dispense during installation. Stud Clip "Coil Rollers" work well with only one Roller to dispense plastic water line. However, by installing a second "coil roller" upside down in the bottom of the coil provides additional ease of use. As well as having an optional lock bar across the top or open portion of the "U" to achieve 100% coil retention.
- 5) Also as described in paragraph two, Stud Clip "Scaffold Brackets" provides an arm extension of the side body to accommodate the installation of planking running across the face the building member.

Base A

leg 16, 18

16b, 18b

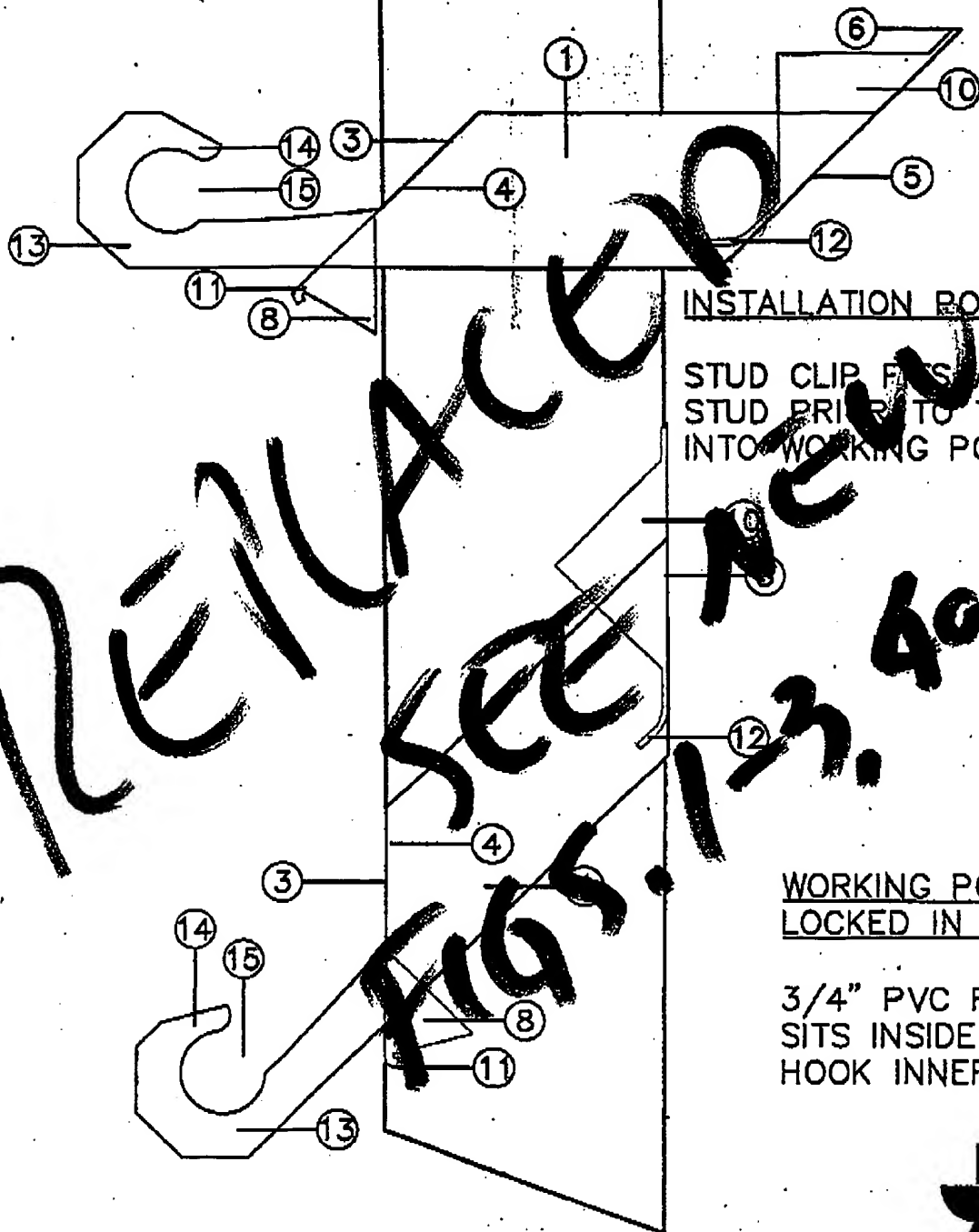
22

not shown

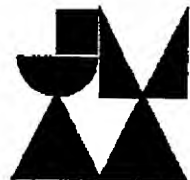
## Claims 2

- 6) Also as described in paragraph two, Stud Clip "Work Bench" provides a lightweight temporary portable workbench for many uses.
- 7) Variable sizes and strengths pending required use/difference in size building materials and applicants.
- 8) Industrial Design and Intellectual property. As this technology is developed through hands on use and clearly understanding the challenges encountered in trying to provide a safe and efficient work environment.

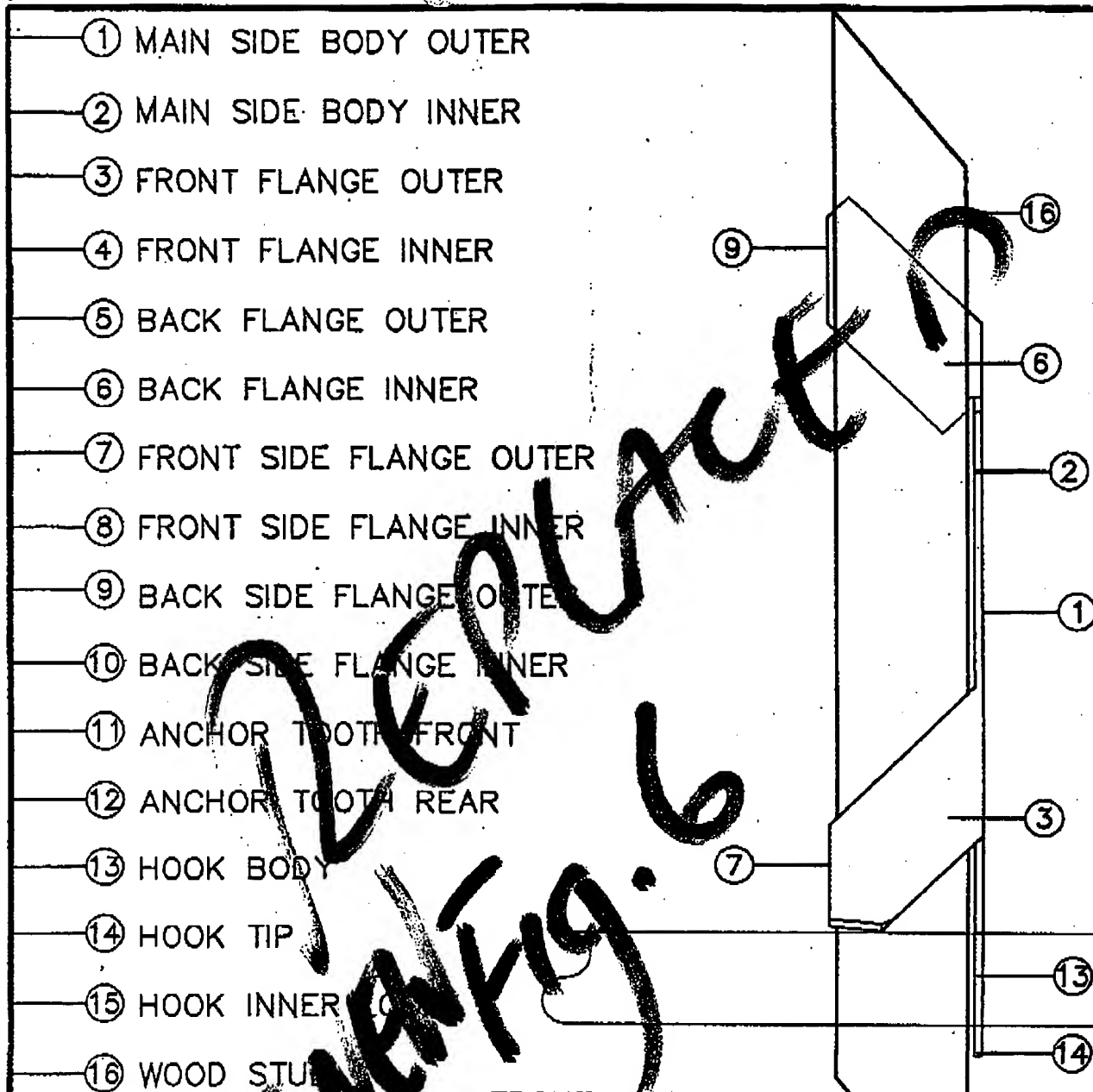
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STUD CLIP RIGHT SIDE VIEW  
PAGE 1

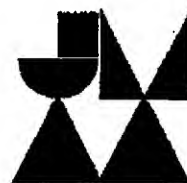


SUITE 2, 5000 - 51 AVENUE, RED DEER,  
ALBERTA, T4N 4A8, PH (403) 346 4542

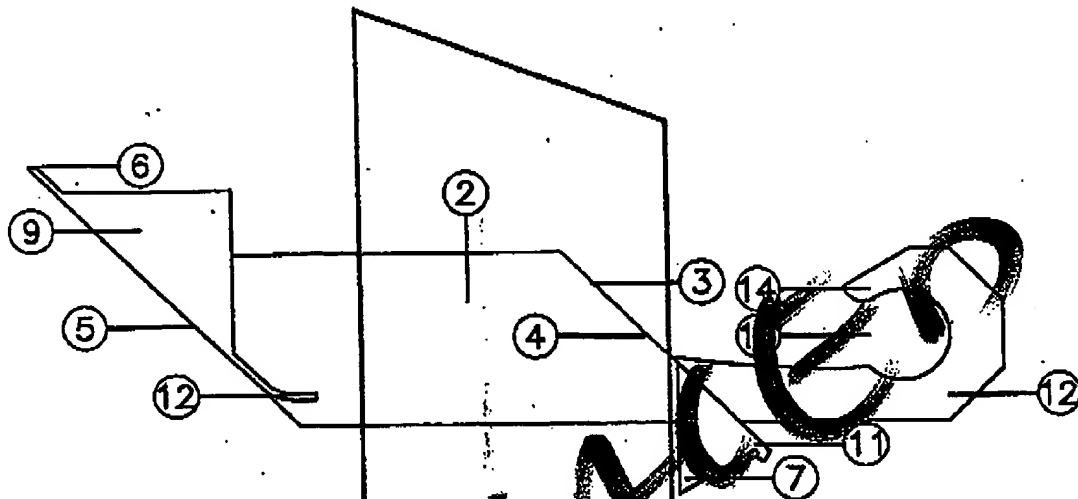


FRONT VIEW  
SHOWING STUD  
CLIP LOCKED INTO  
WORKING POSITION  
AND SUPPORTING  
BAR

STUD CLIP MOULD  
PAGE 2



SUITE 2, 5000 - 51 AVENUE, RED DEER,  
ALBERTA, T4N 4N6, PH (403) 345 4542

INSTALLATION POSITION

STUD CLIP FITS ACROSS  
STUD PRIOR TO TIPPING  
INTO WORKING POSITION

WORKING POSITION  
LOCKED IN PLACE

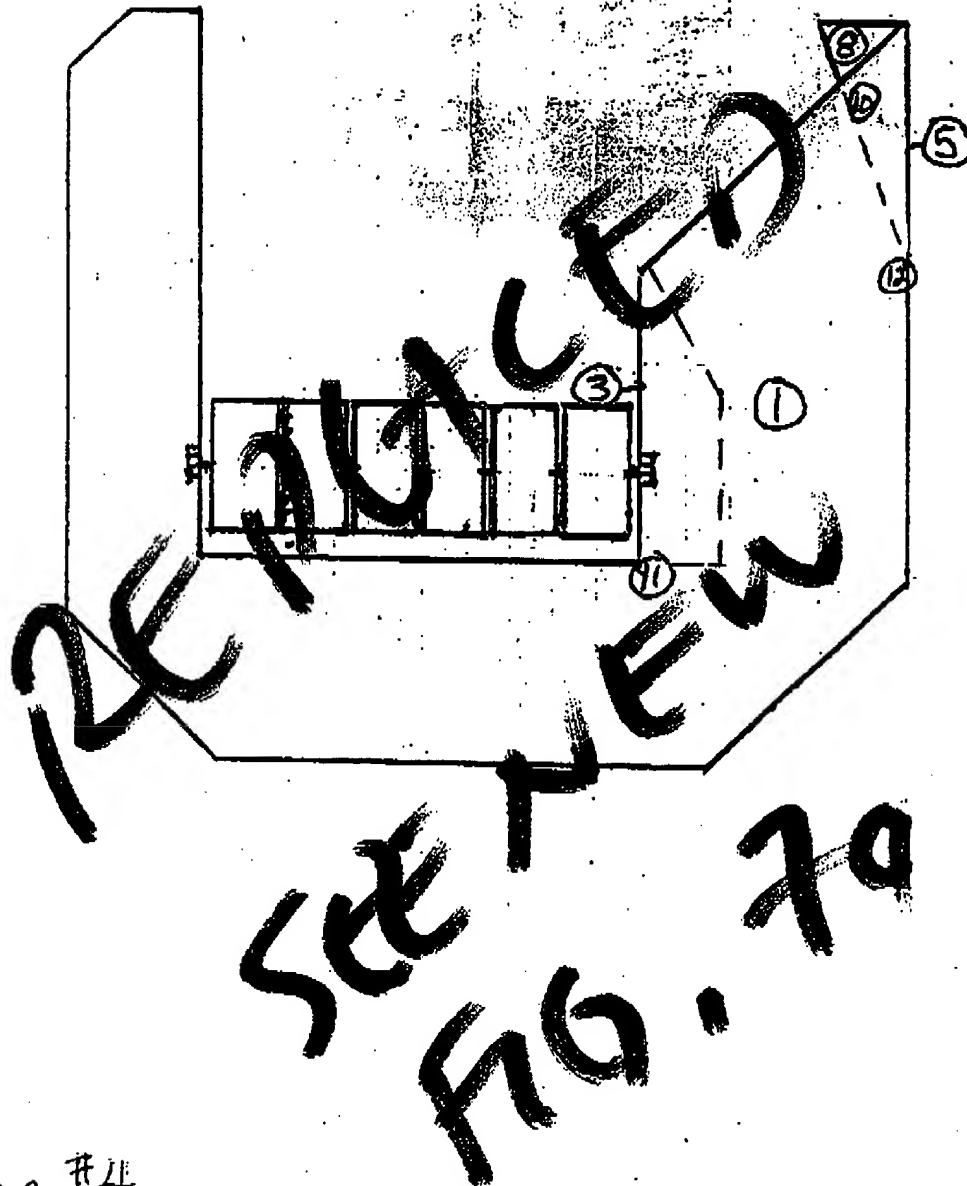
3/4" PVC ROLL  
SITS INSIDE BAR  
HOOK INNER LOOP

STUD CLIP LEFT SIDE VIEW  
PAGE 3



SUITE 2, 5000 - 61 AVENUE, RED DEER,  
ALBERTA, T4N 4N6, PH (403) 346 4342

Stud/Clip  
Coil Roller

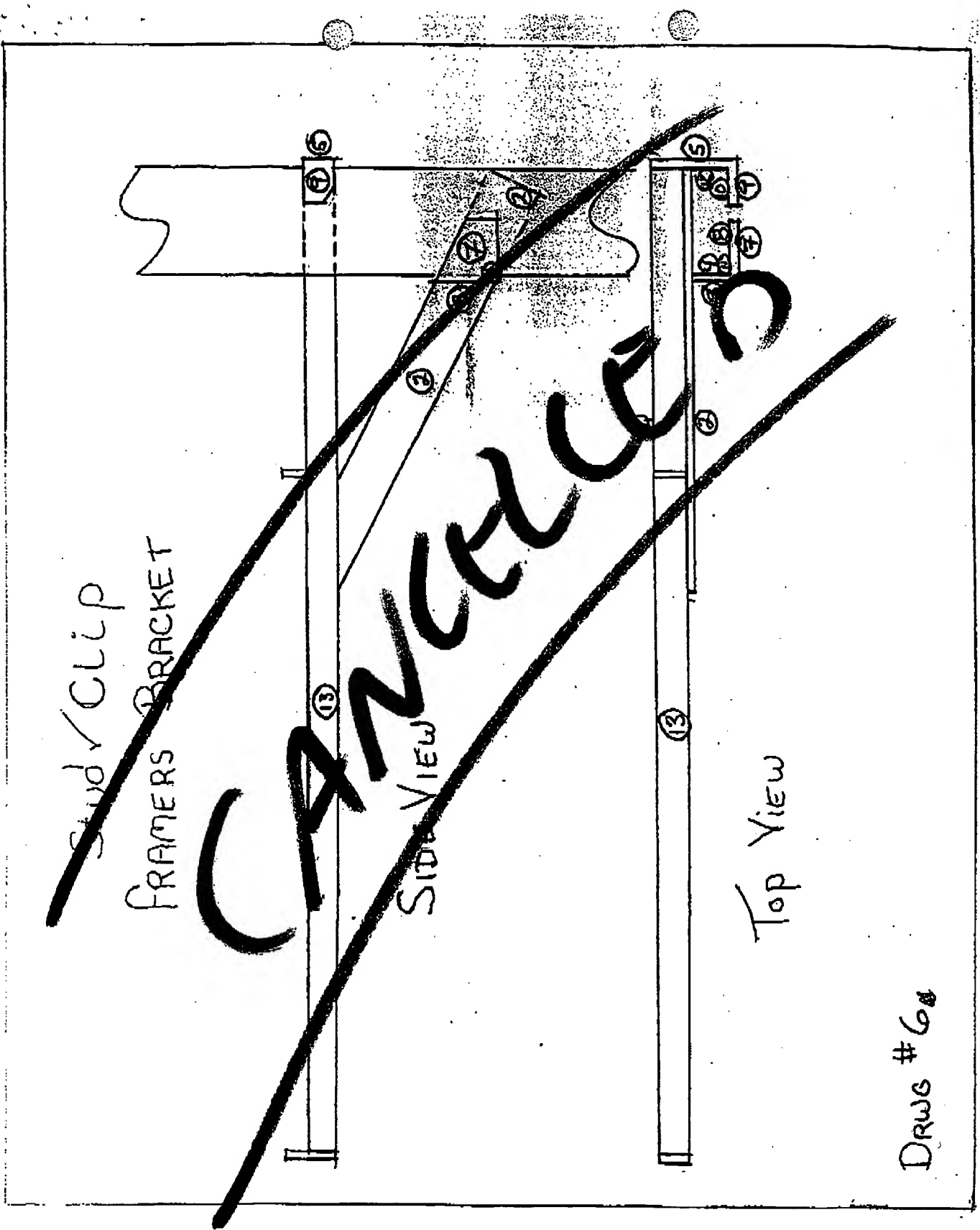


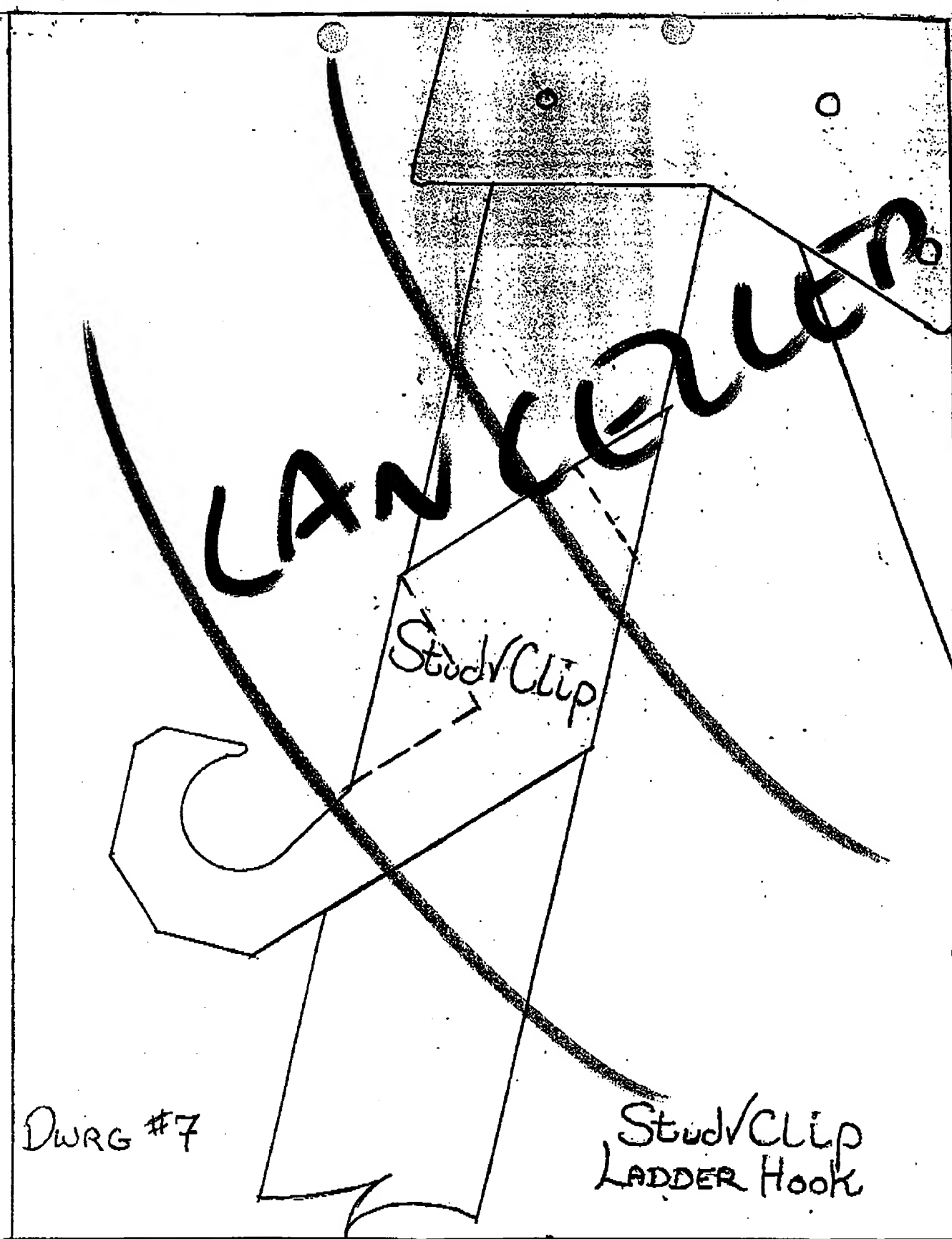
DRWG #4

STUD VCLIP  
COLL ROLLER  
SHOWN BACK TO BACK.

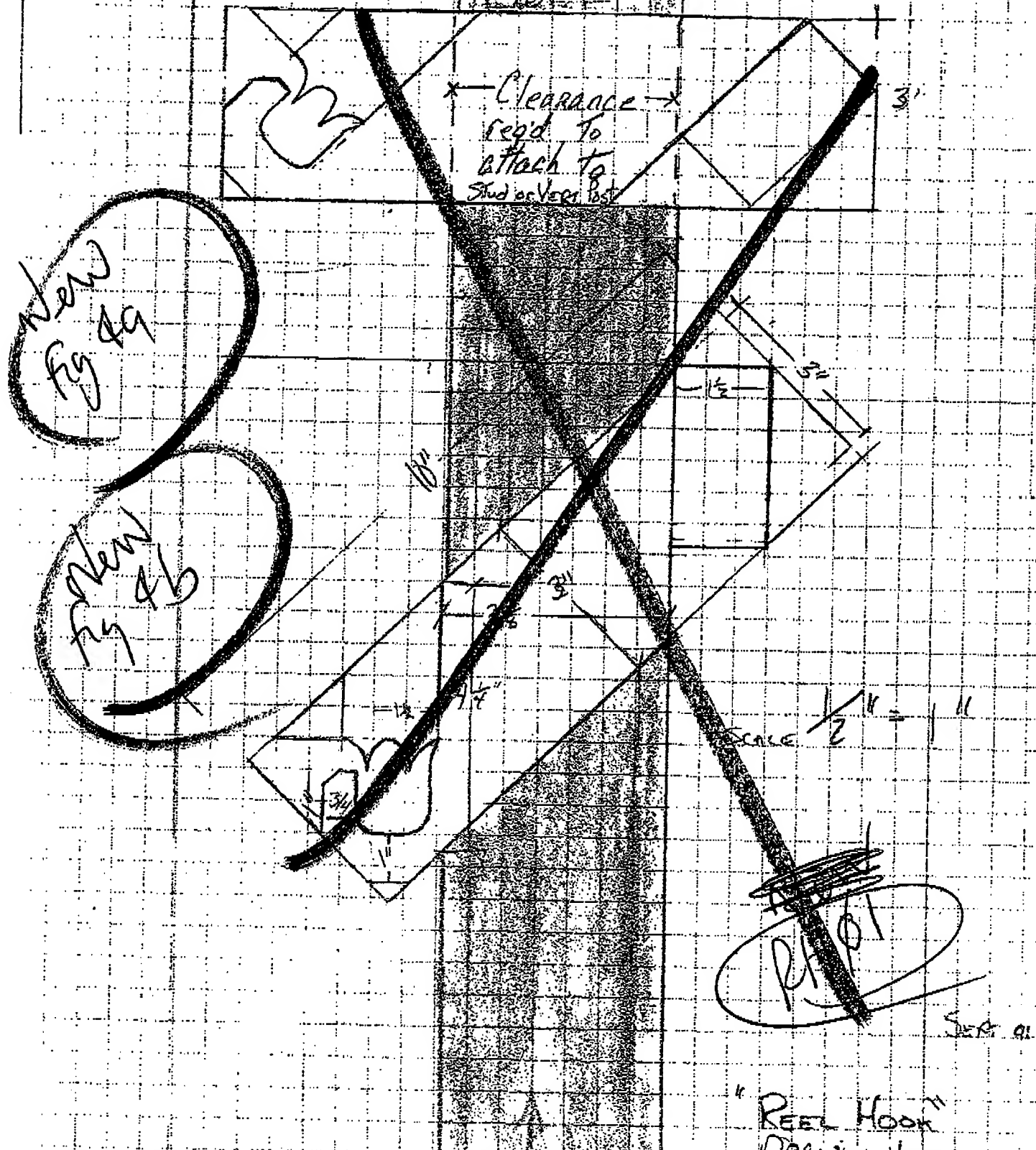
REPLACED  
SEE NEW  
FIG 7b

DRWG #5.





# STUD CLIP REEL Hooks



\* Clearance \*  
req'd To  
attach to  
Stud or Verif Post

31

New fig 49

Ex 46

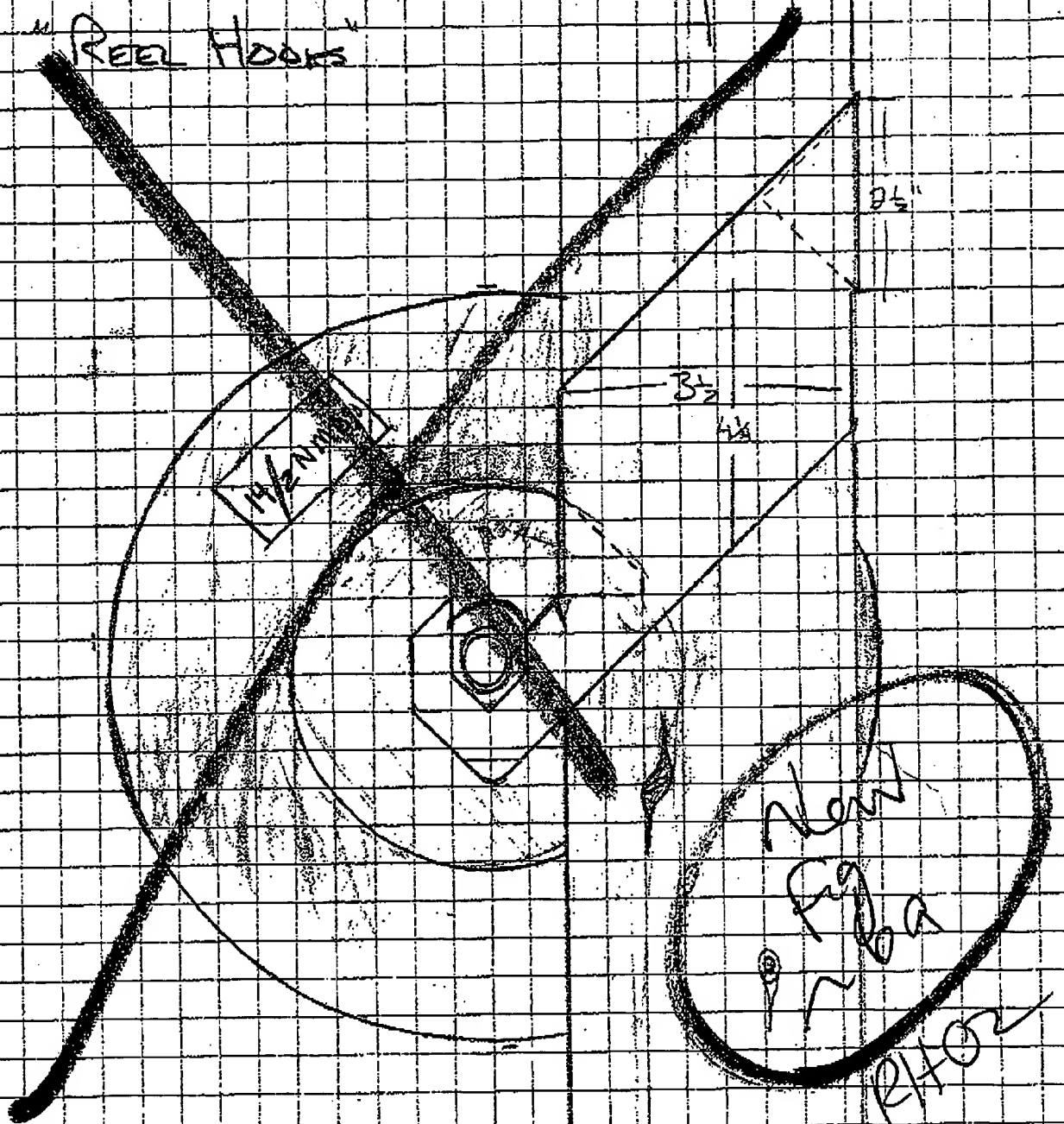
SCALE  $\frac{1}{2}'' = 1'$

~~SECRET~~  
P/P

LEAD QU

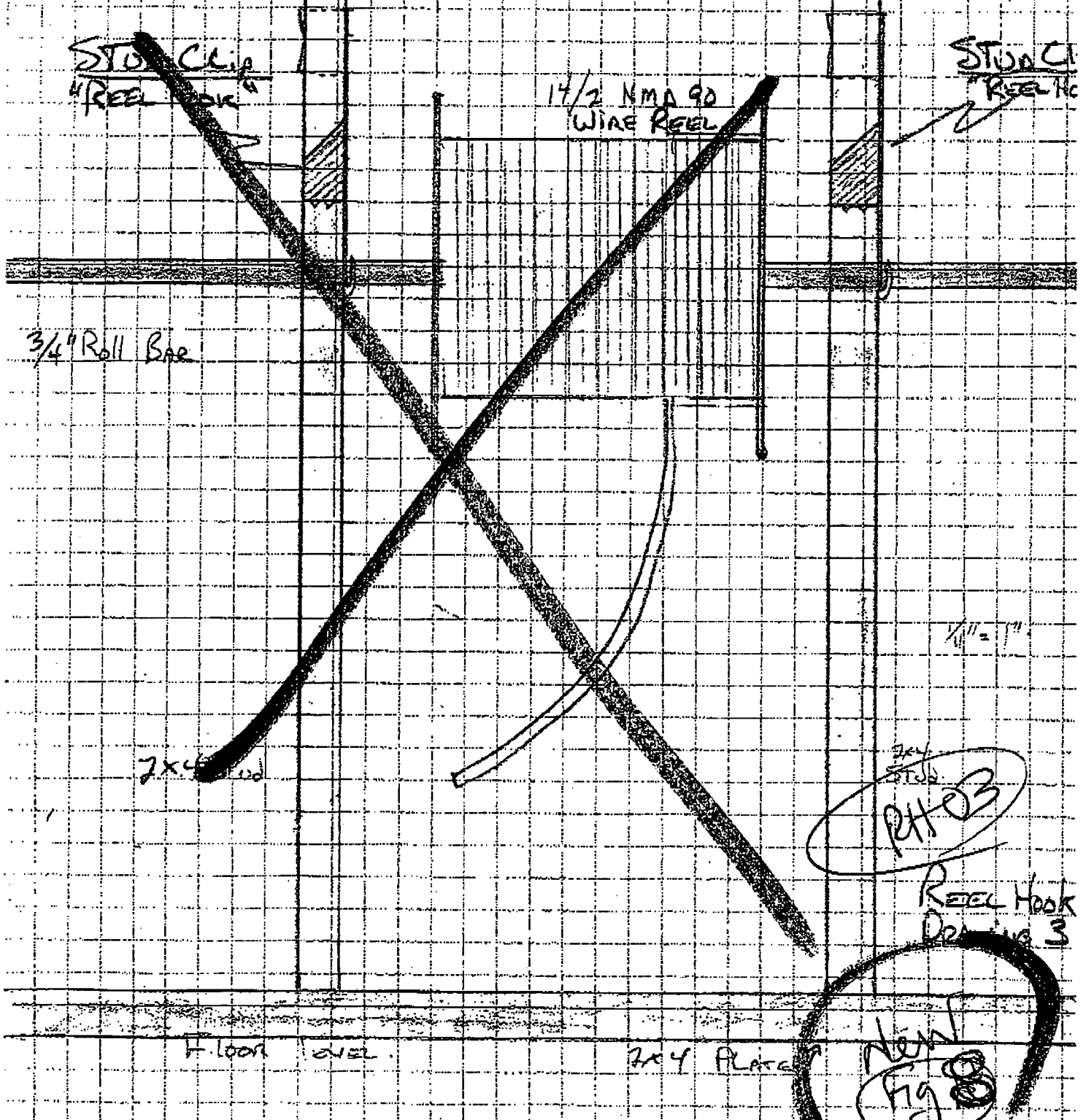
4. Reel Hook

STUD CLIP  
"Reel Hooks"

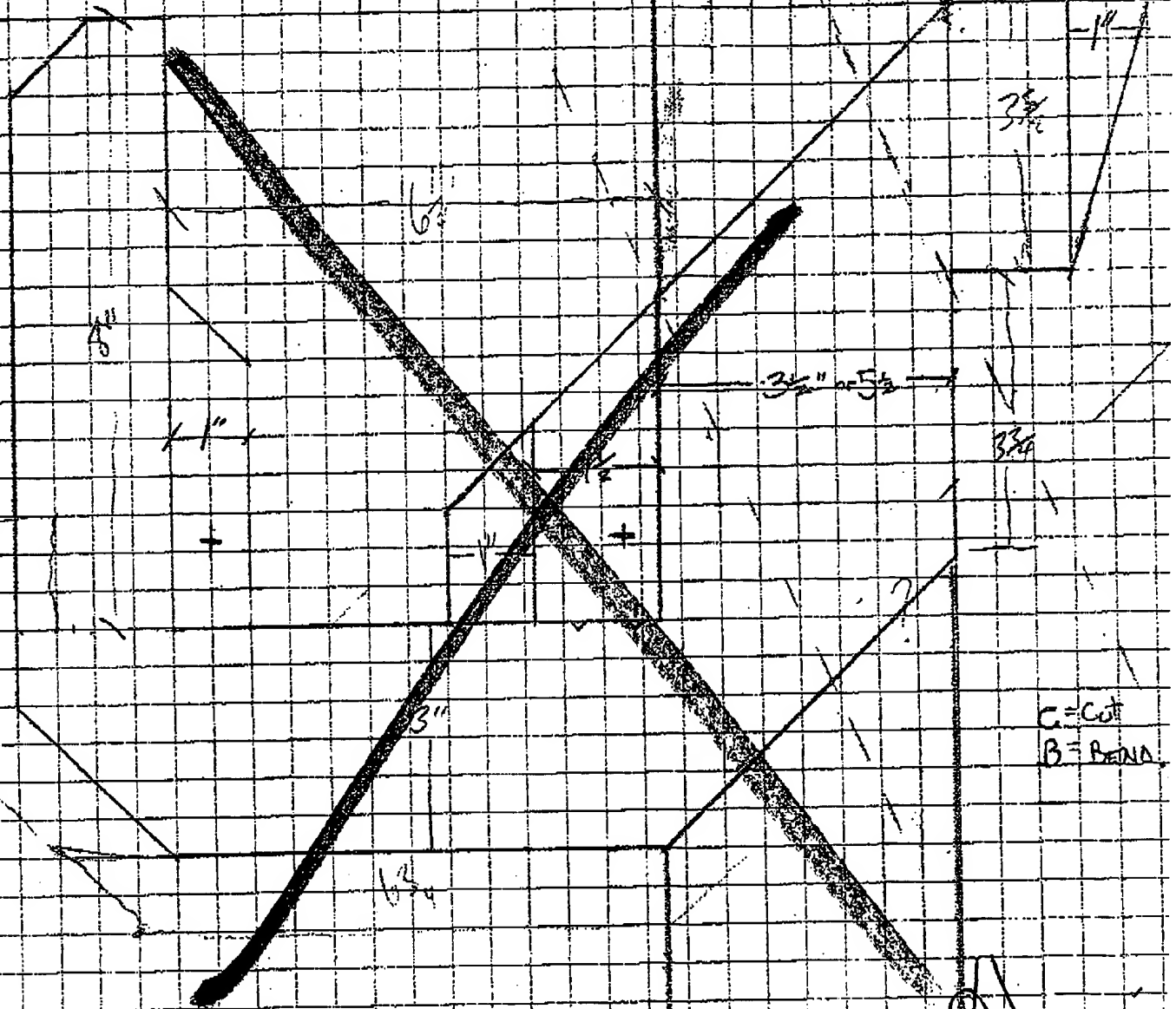


Reel Hook  
Drawing 2

# "STUD CLIP" REEL HOOKS



# STUD CLIP "COIL ROLLER"

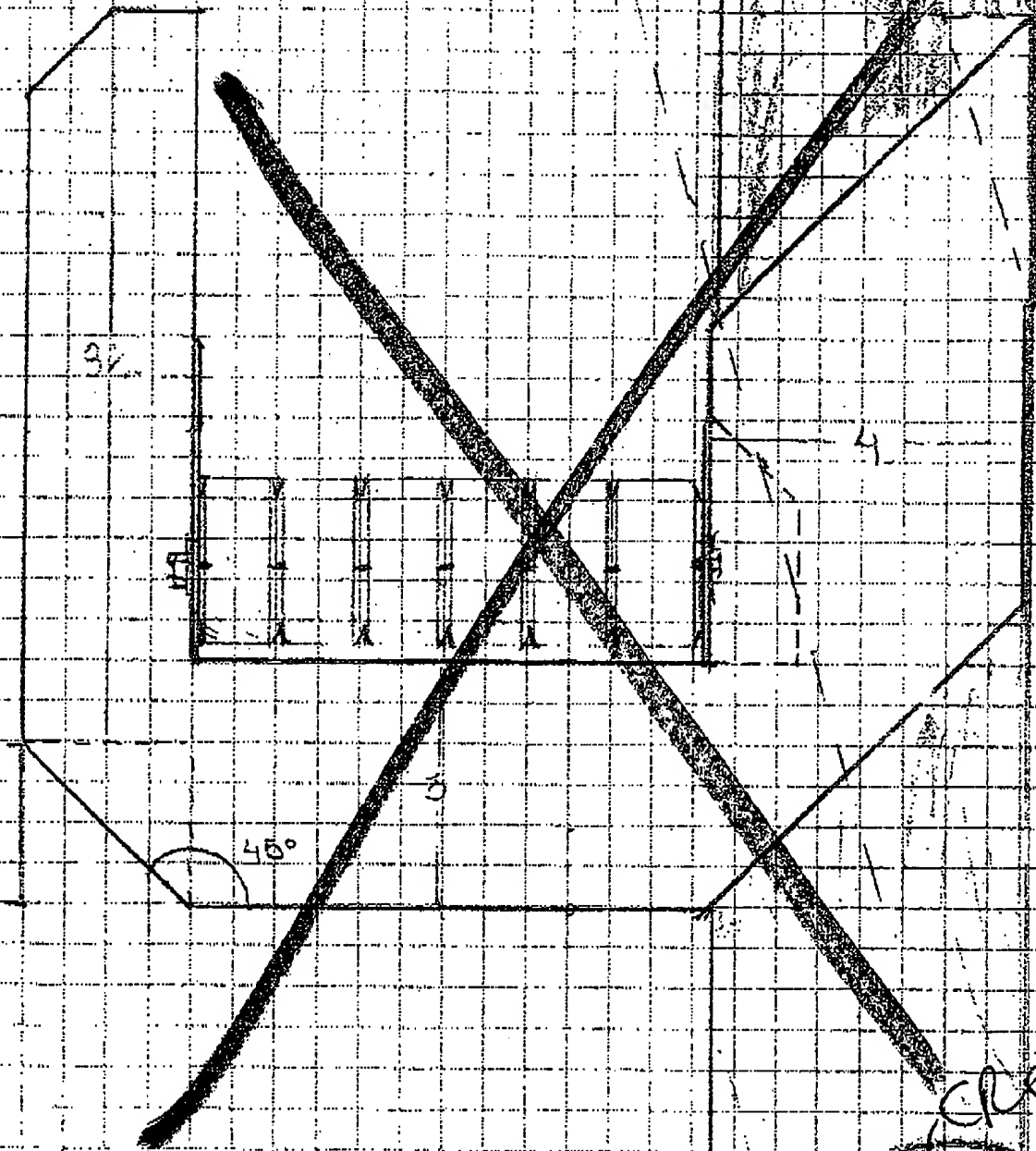


C = CUT  
B = BEND

Scale 1 Square = 1/2"

CR  
New Fin for  
Coil Roller  
Drawing

STUD CLIP  
Coil Roller



WORKS ~~WELL~~  
VERY WELL

CLERK ✓  
New  
Bent ✓  
Flyer  
Coil Roller  
Drawing 2  
Date 25/04

+38" AFF

STUD CLIP  
Coil Roller

+32"

+27"

+14"

+9"

+2"

Floor

Floor

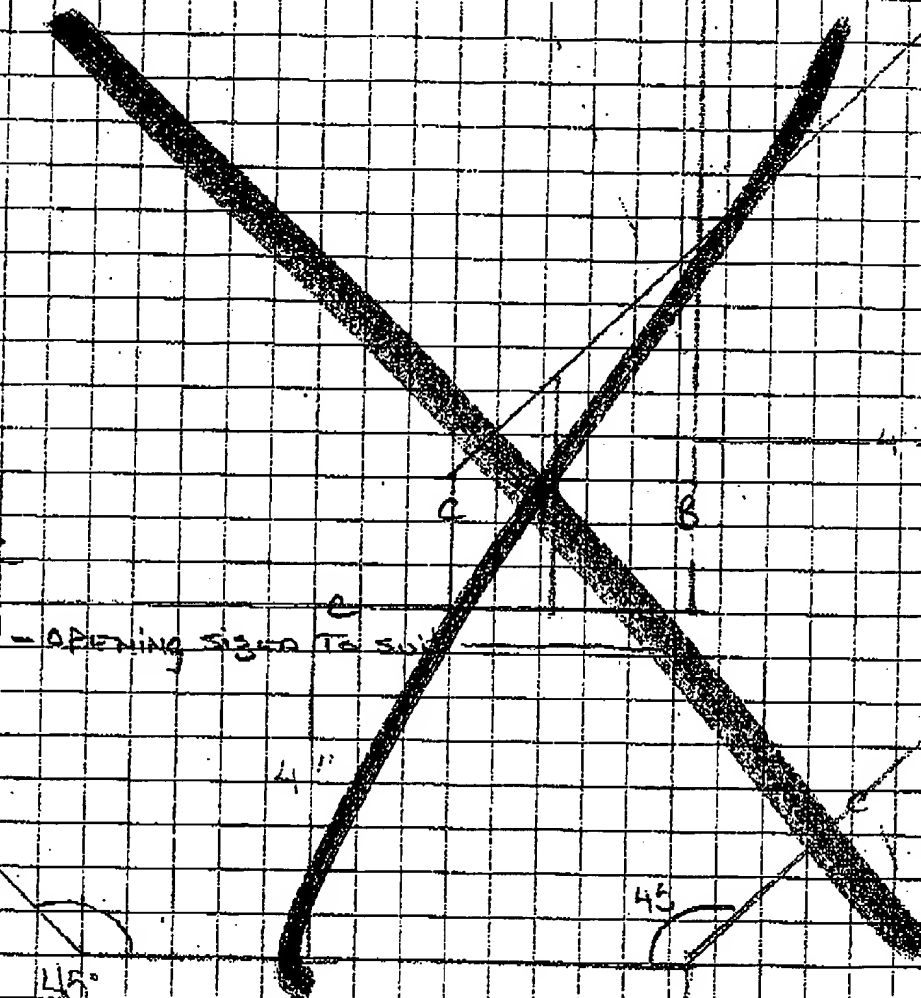
New  
FCH 715

CR 03

Coil Roller  
Drawing 3

STUD CLIP

SCAFFOLD BRACKET



C = C<sub>UT</sub>  
B = B<sub>END</sub>

SB 01  
about  
equal to Fig 9B  
Scaffold  
Bracket  
01

# STUD CLIP

## "WORK BENCH"

- ① → STANDARD BLUE PRINT SIZE
- ② → SCREW TIGHTEN CLAMPS TO SECURELY HOLD A POWER MITRE SAW.
- ③ → ELECTRICAL RECEPTACLE AND BOX

